

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A disc ~~Disc~~ brake (10), comprising
~~[[-]]~~ two brake shoes (16, 18), which for generating a clamping force (B, B')
are pressable against both sides of a brake disc (20);
~~[[-]]~~ a conversion device (42), which is connectable to a motor (30) and which
converts a driving motion of the motor (30) into an actuating motion for
actuating at least one of the brake shoes (16, 18); and
~~[[-]]~~ a support device (62) for taking up a reaction force (C), which upon
generation of the clamping force (B, B') is introduced into the conversion device
(42); and
~~characterized in~~
~~that between the conversion device (42) and the support device (62) at different~~
~~positions two or more force sensors are disposed for measuring at least a~~
~~fraction of the reaction force (C) and disposed at different positions between the~~
~~conversion device and the support device.~~

2. (Currently Amended) The disc ~~Disc~~ brake according to claim 1, ~~characterized~~
~~in that wherein~~ the two or more force sensors (80) have a planar form of
construction.

3. (Currently Amended) The disc ~~Disc~~ brake according to claim 1 ~~or 2~~,
~~characterized in that wherein~~ the two or more force sensors (80) are
piezoelectric sensors.

4. (Currently Amended) The disc ~~Disc~~ brake according to ~~one of claims 1 to 3~~
claim 3, ~~characterized in that wherein~~ the two or more force sensors (80) have
piezoresistive layers (90) applied onto planar substrates (92).

5. (Currently Amended) The disc Disc brake according to ~~one of claims 1 to 4~~ claim 1, ~~characterized in that~~ wherein the disc brake (10) comprises two or more force sensors (~~80, 80', 80"~~), which are disposed at a distance from one another in a plane at right angles to a longitudinal axis (A) of the disc brake (10).
6. (Currently Amended) The disc Disc brake according to ~~one of claims 1 to 5~~ claim 1, ~~characterized in that~~ wherein the disc brake (10) comprises four or more force sensors (~~80, 80', 80"~~, ~~80' "~~), and wherein each two adjacent force sensors (~~80, 80', 80"~~, ~~80' "~~) have an angular distance in the order of magnitude of 90° or less in relation to the longitudinal axis (A) of the disc brake (10).
7. (Currently Amended) The disc Disc brake according to ~~one of claims 1 to 6~~ claim 1, ~~characterized in that~~ wherein the support device (62) is coupled rigidly to a housing (60) of the disc brake (10).
8. (Currently Amended) The disc Disc brake according to claim 7, ~~characterized in that~~ wherein the support device comprises a step (62) formed in the housing (60) of the disc brake (10).
9. (Currently Amended) The disc Disc brake according to claim 8, ~~characterized in that~~ wherein the two or more force sensors (80) are applied onto the step (62) or integrated at least partially into the step (62).
10. (Currently Amended) The disc Disc brake according to ~~one of claims 1 to 8~~ claim 1, ~~characterized in that~~ between the conversion device (42) and the support device (62) wherein a carrier (84) is disposed ~~for receiving the force sensor (80)~~ between the conversion device and the support device for receiving the two or more force sensors.

11. (Currently Amended) The disc Disc brake according to ~~one of claims 1 to 8~~
claim 1, ~~characterized in that~~ wherein a bearing is disposed between the
conversion device (42) and the support device (62) ~~a bearing (64) is disposed~~
and the two or more force sensors (80) are fastened in or on a component (76)
of the bearing (64).
12. (Currently Amended) The disc Disc brake according to ~~one of claims 1 to 11~~
claim 1, ~~characterized in that~~ wherein the conversion device (42) converts a
rotary driving motion of the motor (30) into a translatory actuating motion for
actuating at least one of the brake shoes (16, 18).
13. (Currently Amended) The disc Disc brake according to claim 12, ~~characterized~~
~~in that~~ wherein the support device (62) interacts with a component (46) of the
conversion device (42), which component is settable in rotational motion.
14. (Currently Amended) The disc Disc brake according to claim 12 ~~or 13~~,
~~characterized in that~~ wherein the conversion device (42) comprises a nut/spindle
arrangement (44, 46, 50).
15. (Currently Amended) The disc Disc brake according to claim 14, ~~characterized~~
~~in that~~ wherein the support device comprises a step formed in the housing of the
disc brake and wherein the spindle (46) is settable in rotational motion and
supported relative to the reaction force (C) against the step (60).
16. (Cancelled)
17. (New) A disc brake, comprising
a brake disc;
two brake shoes pressable against opposite sides of the brake disc;

a conversion device for converting a driving motion of an electromotor into an actuating motion for actuating at least one of the brake shoes;
a support device for receiving a reaction force that is introduced into the conversion device when the brake shoes are pressed against the brake disc; and
at least two force sensors for receiving at least a fraction of the reaction force, the force sensors being arranged at an angular distance from one another with respect to an axis of rotation of the brake disc.

18. (New) A vehicle brake system having a disc brake, the disc brake comprising two brake shoes, which for generating a clamping force are pressable against both sides of a brake disc;
a conversion device, which is connectable to a motor and which converts a driving motion of the motor into an actuating motion for actuating at least one of the brake shoes;
a support device for taking up a reaction force, which upon generation of the clamping force is introduced into the conversion device; and
two or more force sensors for measuring at least a fraction of the reaction force and disposed between the conversion device and the support device at different positions.